

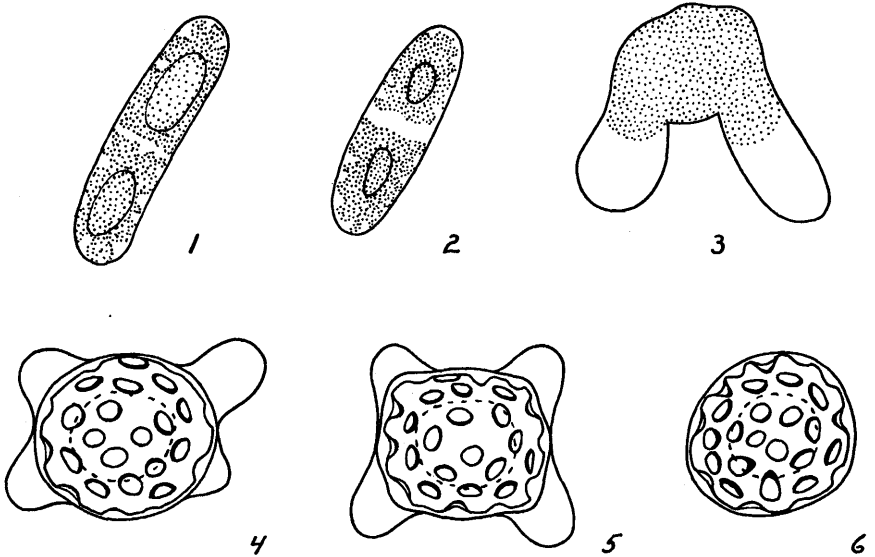
A NEW SPECIES OF CYLINDROCYSTIS¹

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Cylindrocystis splendida n. sp.

Cells cylindrical, slightly curved when old, apices rounded; embedded in a gelatinous matrix. Zygosporis globose, ovoid, to quadrate; spore wall of three layers, the outer wall thin and smooth, the median wall thick and pitted, pits $2.5\text{--}4.5\mu$ in diameter, the inner wall thin and smooth. Veg. cells $10\text{--}11.5\mu$ wide, $23\text{--}39\mu$ long; zygosporis $20\text{--}23\mu$ wide, $23\text{--}28\mu$ long.

Cellulis cylindraxis, curvatis levitis, apicis orbiculatibus, in gelatis matricis inditis. Zygosporis globosis, ovatis vel quadratis, mesosporio scrobiculis ornato; ornatis $2.5\text{--}4.5\mu$ latis. Cellulis vegetativis $10\text{--}11.5\mu$ latis, $23\text{--}39\mu$ longioribus; zygosporis $20\text{--}23\mu$ latis, $23\text{--}28\mu$ longioribus.



Figs. 1, 2. Vegetative Cells.

Fig. 3. Early stage in conjugation.

Figs. 4, 5. Mature spores with remains of conjugating cells.

Fig. 6. A mature spore.

This species is separated from other species of *Cylindrocystis* because of the thick median spore wall with its exceptionally large pits.

Collected and found to be associated with *Mesotaenium aplanosporum* Taft on wet cliffs of the Blackhand Conglomerate Formation, Jackson County, Ohio.

¹Papers from the Department of Botany, The Ohio State University, No. 442.